



caBIG

*cancer Biomedical
Informatics Grid*



Vocabulary And Common Data Elements Cross Cutting Workspace

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Christine SE Richardson**

V-CDE Workspace Accomplishments

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- ▶ Established Governance Model for CDE Development
- ▶ Assignment of Cancer Center-based Members to V-CDE Mentoring Teams for Domain Workspace Projects (SIGs)
- ▶ Initiated Evaluation of Existing External Data Standards relevant to Domain Workspaces
- ▶ Introduced Proposal for Governance for Review and Approval of caBIG Data and Vocabulary Standards
- ▶ Initiated V-CDE Development Projects
- ▶ As Cross Cutting Workspace, ongoing work with Architecture to establish overall infrastructure for caBIG

Information models, data elements, vocabularies

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- ▶ Agreed that data must be situated and described in the context of an object-oriented information model
- ▶ Models shall be composed of well defined data elements
- ▶ Vocabulary standards and controlled terminologies must 'permeate' all higher-order constructs in the data elements and models

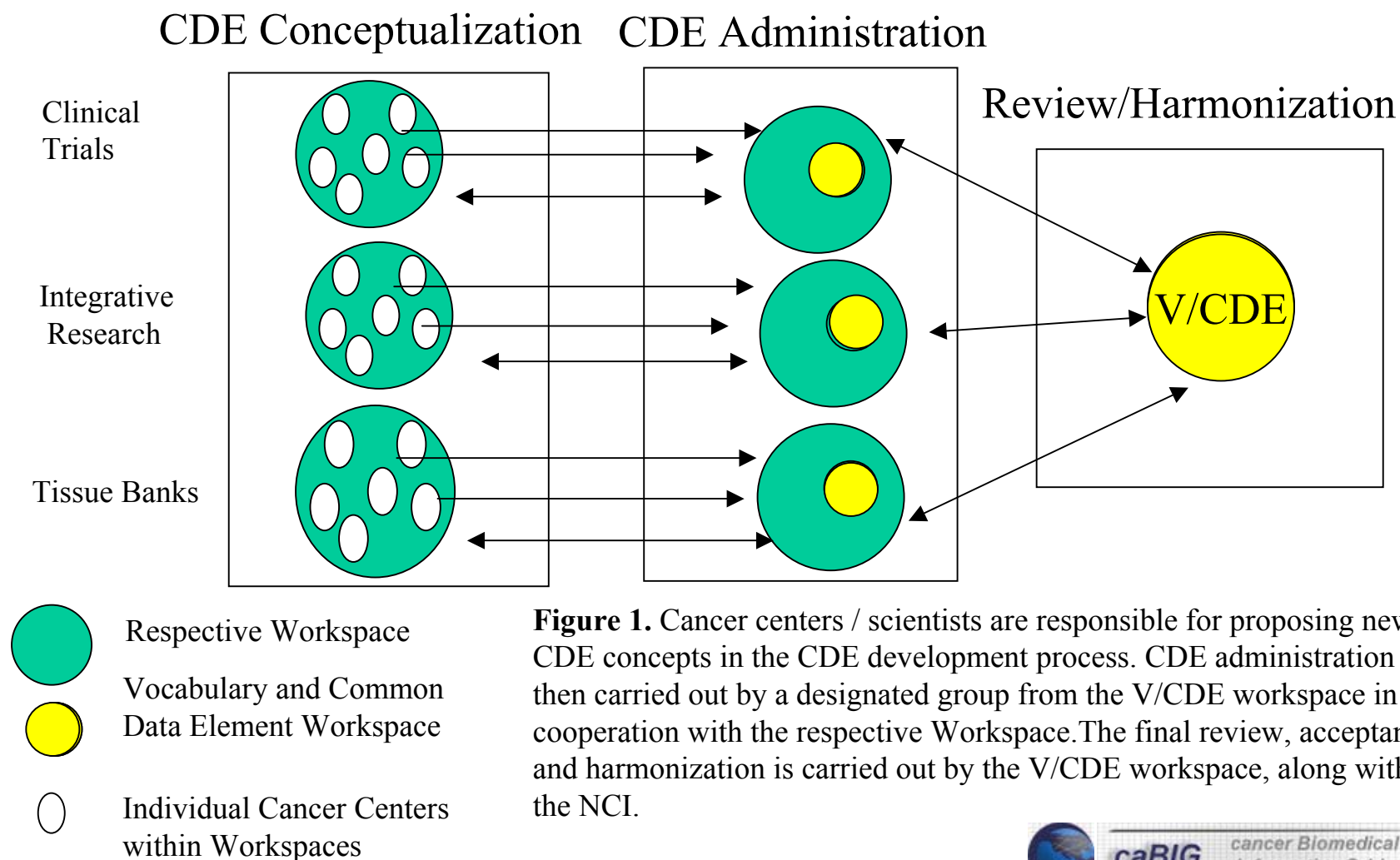
V-CDE Workspace Consensus on CDEs

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- ▶ CDEs to enable
 - Semantic interoperability
 - Unambiguous representation
- ▶ Consensus on CDE Development
 - CDEs consistent with ISO/IEC 11179
 - UML model-based CDE development (EA)
 - Load UML models in caDSR
 - Transform UML to metadata (object class associations and attributes)
 - Add EVS properties

Common Data Element (CDE) Governance

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V-CDE Workspace: Current Work

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- ▶ Formalize Governance Process for review and approval of caBIG Data and Vocabulary Standards
- ▶ Approve Best Existing Data Standards relevant to the Domain Workspaces
- ▶ Requirements for Software Systems/Tools to support Development and Implementation of CDEs and Vocabulary
- ▶ Address Ongoing Support for the Development of CDEs and Vocabulary Content for use in caBIG. Address Identified Needs through Use Cases derived from the caBIG Cancer Centers
- ▶ Define Scope of Data Provenance, Data ID Solutions
- ▶ Define Requirements for Semantic Metadata Structure
- ▶ Vocabulary Deployment Requirements

V-CDE Workspace: Next Steps

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- ▶ Define criteria and process for evaluating caBIG artifacts for compliance with caBIG Gold Level
- ▶ Ongoing Review and Approval of Candidate Data and Vocabulary Standards
- ▶ Data Quality Indicators
- ▶ Implement ID Management System
- ▶ Address Security, Confidentiality of Data
- ▶ Define Scope of HL7 in caBIG Messaging